

SPENCER J. COX

Lieutenant Governor

10. Other

## State of Utah

## **DEPARTMENT OF NATURAL RESOURCES**

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining JOHN R. BAZA Division Director

## **Minerals Inspection Report**

X

	Report D	ate: 08/25/2015	5		
Mine Name: Southwest #1		Permit Number:	M/47/0103	Mine Status:	Active
Operator Name: Red Leaf Resources		Inspection Date:	8/20/2015	Permit Fees:	Paid
Inspector(s): A. Abate, Lynn Kunzler, McKay Tenney		Inspection Time:	10 AM	Bond Amount:	\$3,776,000
Attendee(s): Jeff Hartley, James Patten, Hope Hornbeck,		+ Weather:	Clear 70s	Bond Escalation:	11/4/2015
Inspection Purpose: Inspection to discuss the seedmix, evaulate the topsoil piles, and discuss rare plan				s Prior Inspection:	7/14/2015
The Sect No r	clusions and Recommendations Division will issue a directive to Red Leaf asking for updition 109.2 - on the conservation agreement related to the translation of the topsoil piles is necessary at this time as the trable vegetation.	wo species of rare plan	its: Grahams Penste	emon and White River	Beardtongue.
	Elements of Inspection			aluated & Commented	Enforcement
1.	Permits, Revisions, Transfer, Bonds			$\boxtimes$	
2. 3. 4. 5. 6.	Public Safety (shafts, adits, trash, signs, highwalls) Protection of Drainages/Erosion Control Deleterious Material Roads (maintenance, surfacing, dust control, safety) Reclamation Several small stockpiles of topsoil have been salvaged a construction phase of the project. There does not appear	ar to be a significant an	ount of topsoil tha	t can successfully recla	im the areas
	already disturbed. The topsoil was seeded in accordance with the prescribed seed mix for temporary stockpiles in the NOI. The seeding was done in early September 2014.				
7.	Backfilling/Grading (trenches, pits, roads, highwalls, sa	hafts)			
8.	Soils			$\boxtimes$	
	The purpose of this visit was to have a Division biologist evaluate the top soil piles to determine the types of vegetation grown and how that compares to what was proposed in the interim top soil pile seed mix. Red Leaf is in receipt of a seed mix from the Division of Wildlife Resources that is favorable to big game while at the same time will control erosion. The goal is to enhance big game habitat and encourage them to forage in the area. DWR is planning to do the seeding. The Division's position is that we are supportive of the big game seed mix as long as cheat grass and other invasive species are being controlled in the permit area.				
9.	Revegetation				
	While it was determined that some invasive weeds were premature at this time since the weeds sometimes show off.				



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The second issue discussed during the inspection was the finalized Conservation Agreement and Strategy for Graham's Beardtongue and White River Beardtongue (July 2014). These rare plants that have been identified as growing exclusively on oil shale outcrops. Section 109.2 of current mine plan should be updated to reflect the finalized conservation agreement and the steps that Red Leaf has undertaken to participate in the conservation process of these plants. Red Leaf has contracted with SWCA who has performed surveys of the plants. SWCA has identified locations within the SITLA areas leased to Red Leaf where the plants have been identified. An area on the Red Leaf property has been site aside as habitat; however, as part of the discussions from this field visit SWCA is proposing test plots to experiment with plantings. Some of those plots would include a native, undisturbed area; a reclaimed area, and a waste rock area. These experimental areas would provide valuable data showing which type of environment the plants respond the most favorably to. SITLA is a signatory to the 2014 Conservation Agreement for the two plants mentioned. SITLA has asked Red Leaf to voluntarily commit to setting up partial sections of their lease for conservation studies.

Inspector's Signature:

CC: John Blake, SITLA jblake@utah.gov

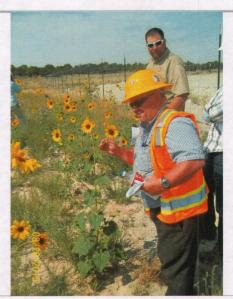
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Inspected: 8/20/2015



EPS Capsule excavation and floor



Lynn in the vegetation reference area examining the sunflowers.



Forage koshia identified in the vegetation reference area.



Vegetation reference area containing Bee plant.

